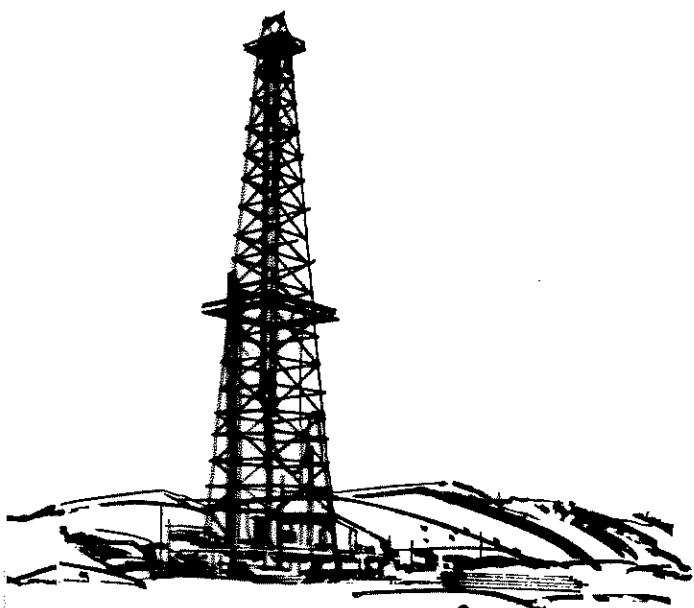




LYNES

BRIGHT NAME IN THE OIL PATCH

Inflatable and Conventional Packer Tools



**DRILL STEM TEST
TECHNICAL SERVICE REPORT**

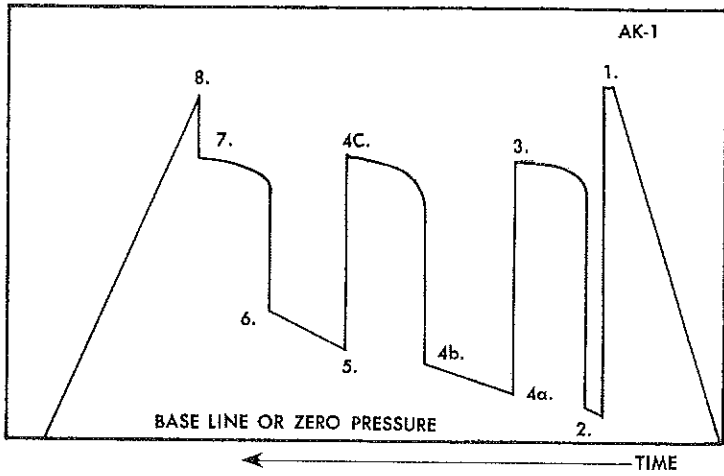
LYNES UNITED SERVICES LTD.

| TEST DATA | | | | GENERAL INFORMATION | | | |
|--|--|--------------------------|--|---|--|--|--|
| Test No. 9 | | Lynes Test | | Company | | Chevron Standard Ltd. | |
| Formation | | T.D. 8004 Ft. | | Address | | 14605 - 118 Avenue | |
| Interval Tested 2486 | | Ft. to 2548 | | Ft. | | Edmonton, Alberta | |
| Feet of Net Pay Tested 62 | | Ft. | | Ft. | | | |
| Type of Test Inflatable Straddle | | | | Well Name SCOC Wm E. Porcupine Yt - 1-13 | | | |
| Cushion nil | | Amount | | Ft. | | Well Number 660 02' 35.00 137° 46' 58.00 | |
| Started in Hole at 8:00 | | Hrs. Tool Open at 10:35 | | Hrs. | | K.B. Elevation 1660 Sub-Sea Elevation | |
| Pre-Flow 5 Mins. | | Initial Shut-in 30 Mins. | | Area | | East Porcupine Province Yukon | |
| 2nd Flow Mins. | | Second Shut-in Mins. | | Company Rep. | | R. Hansen | |
| Final Flow 120 Mins. | | Final Shut-in 120 Mins. | | Tester | | P. McDonnell | |
| Remarks: | | | | Contractor | | GP Rig No. 14 | |
| | | | | Ticket No. 2930 | | Date April 30/71 | |
| Blow: Good initial puff. Strong air blow on preflow. Strong air blow on main flow decreasing slightly throughout the test. | | | | Service Reports To: 8 - above address | | | |
| GAS BLOW MEASUREMENTS | | | | MUD AND HOLE DATA | | | |
| Measured with | | | | Mud Type Gel Chem | | | |
| | | | | Weight 10.9 Viscosity 162 Water Loss 7.2 | | | |
| | | | | Filter Cake 2/32" Bottom Hole Temperature | | | |
| | | | | Drill Pipe Size 4 1/2" Fh Weight | | | |
| | | | | Drill Collars 5" H90 I.D. 2 3/4" Feet Run | | | |
| | | | | Main Hole or Casing Size 8 3/4" | | | |
| | | | | Rathole or Liner Size No. of Feet | | | |
| | | | | Bottom Hole Choke Size 3/4" | | | |
| | | | | Surface Choke Size adjustable | | | |
| | | | | Packer Rubber Size | | | |
| | | | | REMARKS Shut-in pressures suggest very low permeability within the interval tested. | | | |
| RECOVERY | | | | | | | |
| TOTAL FLUID RECOVERED 150 Ft. Consisting of: | | | | | | | |
| 120 Ft. of mud | | | | | | | |
| 30 Ft. of water (filtrate) | | | | | | | |
| Ft. of | | | | | | | |
| Ft. of | | | | | | | |
| Test was/was not Reverse Circulated was not | | | | | | | |
| Oil Recovery A.P.I. Water Specific Gravity | | | | | | | |
| Salinity | | | | | | | |
| PRESSURE READINGS | | | | | | | |
| Inside _____ Outside X | | Inside _____ Outside X | | Inside _____ Outside X | | Inside _____ Outside | |
| Recorder No. 5578 | | Recorder No. 4379 | | Recorder No. 5811 | | Recorder No. | |
| Capacity 2950 | | Capacity 3000 | | Capacity 6000 | | Capacity | |
| Depth 2494 | | Depth 2494 | | Depth 2563 | | Depth | |
| NUMBER KEY: | | | | | | | |
| 1 - INITIAL HYDROSTATIC | | 1432 | | 1364 | | 1504 | |
| 2 - PRE-FLOW | | 174 | | 178 | | | |
| 3 - INITIAL SHUT-IN | | 933 | | 931 | | | |
| 4a - 2nd INITIAL FLOW | | | | | | | |
| 4b - 2nd FINAL FLOW | | | | | | | |
| 4c - 2nd SHUT-IN | | | | | | | |
| 5 - 3rd INITIAL FLOW | | 99 | | 96 | | | |
| 6 - FINAL FLOW | | 125 | | 124 | | | |
| 7 - FINAL SHUT-IN | | 1059 | | 1024 | | | |
| 8 - FINAL HYDROSTATIC | | 1432 | | 1364 | | 1589 | |

Chevron Standard Ltd. Company
 SOBC Wm E. Porcupine Yt-1-13 660 02' 137° 46' #9
 Well Name and Description
 Test No.
 Date of Test April 30/71

GUIDE TO INTERPRETATION AND IDENTIFICATION OF LYNES DRILL STEM TEST PRESSURE CHARTS

AK-1 recorders. Read from right to left.

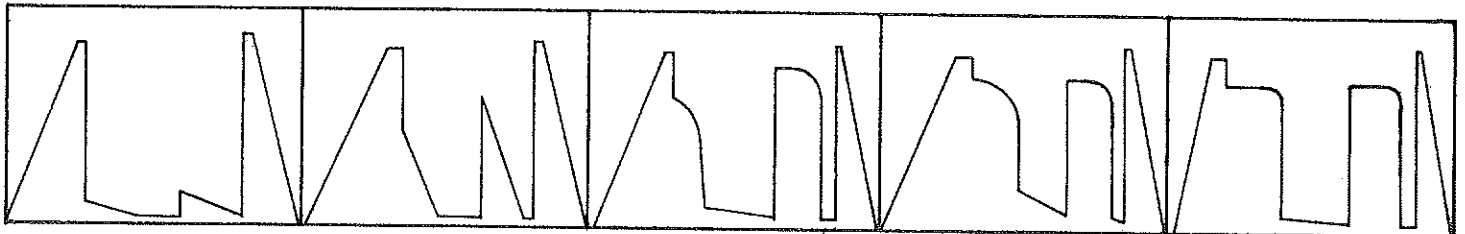


1. INITIAL HYDROSTATIC MUD PRESSURE
2. PRE-FLOW
3. INITIAL SHUT-IN
- 4a. 2nd INITIAL FLOW
- 4b. 2nd FINAL FLOW
- 4c. 2nd SHUT-IN
5. 3rd INITIAL FLOW
6. FINAL FLOW
7. FINAL SHUT-IN
8. FINAL HYDROSTATIC MUD PRESSURE

N.B. When only two shut-in and flow periods are run, 4a, 4b and 4c are omitted.

K-3 recorders. Read from left to right.

Typical charts for visual field analysis ranging from very low to high permeability.



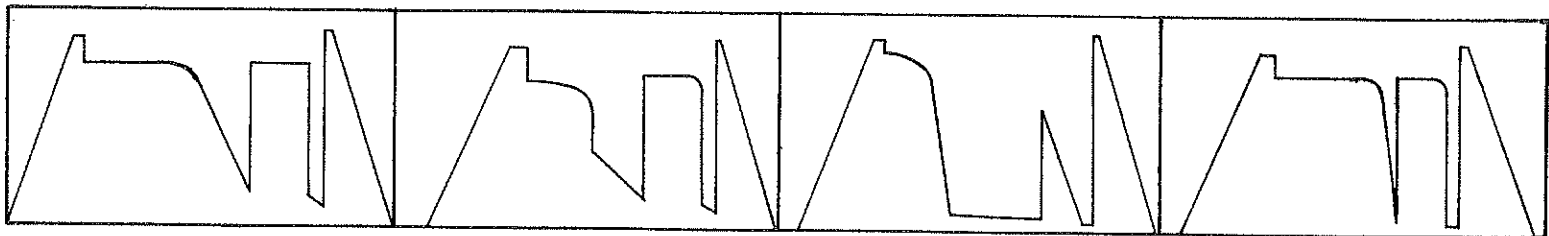
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again mud recovered.

Slightly higher permeability. Small recovery, less than 200' ft).

Average permeability. Final and initial shut-ins differ by 50 psi.

Average permeability. Strong damage effect. High shut-in pressure, low flow pressure.



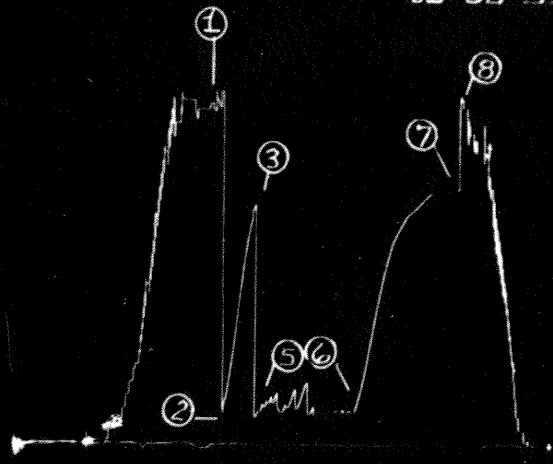
Excellent permeability where final flow final shut-in pressure.

High permeability where ISIP and FSIP are within 10 psi.

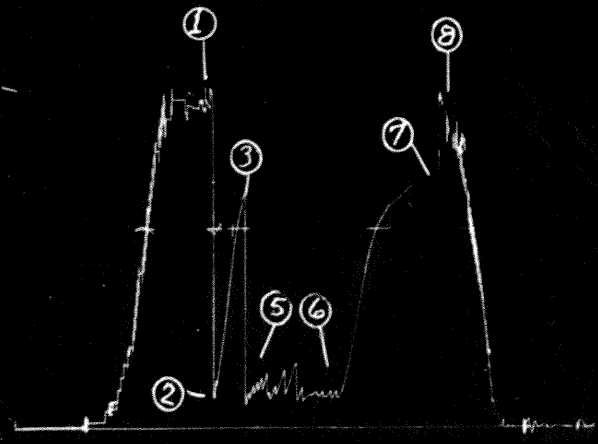
Deep well bore invasion or damage. Final shut-in higher than the initial shut-in.

Tight hole chamber tester. Permeability very difficult to interpret unless the recovery is less than chamber length. Flow pressure builds up rapidly if recovery is large, similar to a shut-in.

SOBC WM E PORCUPINE YT 1-13
66°02'35.00 137°46'58.00
5578-9



SOBC WM E PORCUPINE YT-1-13
66°02'35.00 137°46'58.00
4379-9



SOBC WM E PORCUPINE
YT 1-13 66° 02' 35.00
137° 46' 58.00

5811 - -9 Below Straddle

